

Inventors: Pawlowski et al.

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1/11

147 atgtcggactacgagaacgatgacgagtgctggaacgtcctggag CARD domain
M S D Y E N D D E C W N V L E
192 ggcttcggggtgacgtcacctcgggtcatcgacctcacgcatc
G F R V T L T S V I D P S R I
237 acaccttacctgcggcagtgcaaggtcctgaaccctgatgatgag
T P Y L R Q C K V L N P D D E
282 gagcaggtgctcagcgaccccaacctgggtcatccgcaaacggaaa
E Q V L S D P N L V I R K R K
327 gtgggtgtgctcctggacatcctgcagcggaccggccacaagggc
V G V L L D I L Q R T G H K G
372 tacgtggccttcctcgagagcctggagctctactaccgcgagctg
Y V A F L E S L E L Y Y P Q L
417 tacaagaaggtcacaggcaaggagccggcccgctcttctccatg
Y K K V T G K E P A R V F S M
462 atcatcgacgcgtccggggagtcaggcctgactcagctgctgatg
I I D A S G E S G L T Q L L M
507 actgaggtcatgaagctgcagaagaaggtgcaggacctgaccgcg
T E V M K L Q K K V Q D L T A
552 ctgctgagctccaaagatgacttcatcaaggagctgcgggtgaag
L L S S K D D F I K E L R V K
597 gacagcctgtgcgaagcaccaggagcgtgtgacagaggctcaag FILAMENT domain
D S L L R K H Q E R V Q R L K
642 gaggagtgcgaggccggcagccgcgagctcaagcgtgcaaggag
E E C E A G S R E L K R C K E
687 gagaactacgacctggccatgcgcctggcgaccagagtgaggag
E N Y D L A M R L A H Q S E E
732 aagggcgccgcgtcatgcggaacctgacctgcagctggagatt
K G A A L M R N R D L Q L E I
777 gaccagctcaagcacagcctcatgaaggccgaggacgactgcaag
D Q L K H S L M K A E D D C K
822 gtggagcgcaagcacagcgtgaagctcaggcacgccatggagcag
V E R K H T L K L R H A M E Q
867 cggcccagccaggagctgctgtgggagctgcagcaggagaaggcc
R P S Q E L L W E L Q Q E K A
912 ctgctccaggccccgggtgcaggagctggaggcctccgtccaggag
L L Q A R V Q E L E A S V Q E
957 ggggaagctggacaggagcagcccctacatccaggtactggaggag
G K L D R S S P Y I Q V L E E
1002 gactggcggcaggcgtgcgggaccaccaggagcaggccaacacc
D W R Q A L R D H Q E Q A N T
1047 atcttctcctgcgaaggacctccgcccaggcgaggcccgacgc
I F S L R K D L R Q G E A R R
1092 ctccgggtgcatggaggagaaggagatgttcgagctgcagtgctg
L R C M E E K E M F E L Q C L
1137 gcactacgtaaggactccaagatgtacaaggaccgcatcgaggcc
A L R K D S K M Y K D R I E A
1182 atcctgctgcagatggaggaggtcgccattgagcgggaccagagc
I L L Q M E E V A I E R D Q S
1227 acacaaatggaggggctgtga 1247
T Q M E G L *

FIGURE 1

1 atggatgactacatggagacgctgaaggatgaagaggacgccttg CARD domain
M D D Y M E T L K D E E D A L
46 tgggagaatgttgaagtgttaaccggcacatgctcagccgctatatac
W E N V E C N R H M L S R Y I
91 aaccctqccaagctcacgcccctacctgcgtcagtgtaaggtcatt
N P A K L T P Y L R Q C K V I
136 qatgagcaggtatgaagatgaagtgccttaatgccccctatgctgcca
D E Q D E D E V L N A P M L P
181 tccaagatcaaccgagcagccgctgttggacattctacataacc
S K I N R A G R L L D I L H T
226 aaqgggcaaaagggcctatgtggtcttcttggagagcctagaattt
K G O R G Y V V F L E S L E F
271 tattaccagaactgtacaaactggtgactgggaaagagccact
Y Y P E L Y K L V T G K E P T
316 cggagattctccaccattgtggtggaggaaggccaggggctc
R R F S T I V V E E G H E G L
361 acgcacttcctgatgaacgaggtcatcaagctgcagcagcagatg
T H F L M N E V I K L Q Q Q M ERM (ezrin) domain
406 aaqgccaagqacctqcaacgctgcgagctgctggccaggttgccg
K A K D L Q R C E L L A R L R
451 cagctggaggtatgagaagaagcagatgacgctgacgcgctggag
Q L E D E K K Q M T L T R V E
496 ctgctaacccttcagagcggctactacaagatgaaggaaagagcgg
L L T F O E R Y Y K M K E E R
541 qacagctacaatgacgagctggtcaaggtgaaggacgacaactac
D S Y N D E L V K V K D D N Y
586 aacttaqccatgcgctacgcacagctcagtgaggagaaagacatg
N L A M R Y A Q L S E E K N M
631 gcggtcatgagggagccgagacctccaactcgaatcgaatcagcta
A V M R S R D L Q L E I D O L
676 aagcaccggttgaataagatggagggaggaatgttaagctggagaga
K H R L N K M E E E C K L E R
721 aatcagctctctaaaactgaagaatgacattgaaaatcgccccaag
N O S L K L K N D I E N R P K
766 aaqgagcaggttcttggaaactggagcgggagaaatgaaatgctgaag
K E Q V L E L E R E N E M L K
811 accaaaaaccagagcgtgcagtcctcatccagggcgggaaagcgc
T K N O E L Q S I I Q A G K R
856 agcctgccaagactcagacaagggcatcctggacatcttggaaacac
S L P D S D K A I L D I L E H
901 gaccqcaagggagccctggagggacagggaggtggtcaacagg
D R K E A L E D R Q E L V N R
946 atctacaacctgcagggagggcccgccagggcagggagctgcga
I Y N L O E E A R Q A E E L R
991 qacaagtacctggagggagaaagggagcctggagctcaagtgcctg
D K Y L E E K E D L E L K C S
1036 accctgggaaagagctgtgaaatgtacaagcaccgcacgaacacg
T L G K D C E M Y K H R M N T
1081 gtcacgtgcagctggagggaggtggagcgggagcgggagcagggga
V M L Q L E E V E R E R D Q G

FIGURE 2A

1126 caggctgtgqccctccaggacactgcacataaaagctctcaacaca
Q A V A F Q G H C I K A L N T
1171 gagcctgccactagcaagggtccqaccatccqctctgtgatccg
E P A T S K G R T I G S V I A
1216 ttaatgaagaagccctccactcccgaqatgaagctcaqacaca
L M K K A P H S R D E A Q T Q
1261 tactcgcagtgcttaatcgaaaaqgacaagtacaggaagcagatc
Y S Q C L I E K D K Y R K Q I
1306 cgcgagctggagagaagaacgacgagatgagatccgagatgg
R E L E E K N D E M R I E M V
1351 cggcgaggagcctgcacgtcaacctggagagcaagctgcggcgc
R R E A C I V N L E S K L R R
1396 ctctccaaggacagcaacaacctggaccagagctctgccaggaac
L S K D S N N L D Q S L P R N
1441 ctgccagtaaccatcatctctcaggactttggggatgccagcccc
L P V T I I S Q D F G D A S P
1486 aggaccaatggtcaagaagctgacgattcttccacctcgaggag
R T N G Q E A D D S S T S E E
1531 tcacctgaagacagcaagtacttccctgccctaccatccgccccag
S P E D S K Y F L P Y H P P Q
1576 cgcaggatgaacctgaagggtccagctgcagagagccaaatcc
R R M N L K G I Q L Q R A K S
1621 cccatcagcctgaagcgaacatcagattttcaagccaagggcac
P I S L K R T S D F Q A K G H
1666 gaggaagaaggcacggacgccagccctagctcctgcggatctctg
E E G T D A S P S S C G S L
1711 cccatcaccaactccttcaccaagatgccccccggagccgcagc
P I T N S F T K M P P R S R S
1756 agcatcatgtcaatcacgcgcgagccccgggaaacgactccatc
S I M S I T A E P P G N D S I
1801 gtcagacgtacaaggaggacgcgccccatcgcagcacagtcgaa
V R R Y K E D A P H R S T V E
1846 gaagacaatgcagcggcggtttgacgccttagatctggatgag
E D N D S G G F D A L D L D E
1891 ctggcagcaggggagactgtggctcagagctctccaggtgtgcc
L A A G E T V A Q S P P G V P
1936 tgccagccccctctcttccagggtccccccagcctttgcccagta
C Q P P L F Q G S P S L C Q L
1981 aggctgcgaaccgatgaaacgaaagatgagtggtcctccttaatg
R L P T D E T K D E W S S L M
2026 gggaagcatcagcgtaccaagtgttaaagagagatgacagtcac
G K H Q R Y Q V L K R D D S H
2071 gaacgctactccttcggaccctcctccatccactcctcctcctcc
E R Y S F G P S S I H S S S S
2116 tcccaccaatccgagggcctggatgcctacgacctggagcaggtc
S H Q S E G L D A Y D L E Q V
2161 aacctcatgttcaggaaqtctctcttqaaaaagacccttccggcct
N L M F R K F S L E R P P R P
2206 tcggtcacctctgtgqggcacgtgcqggcccaagggccctcgggtg
S V T S V G H V R G P G P S V
2251 cagcacacgacgctgaatggcgacagcctcacctcccagctcacc
Q H T T L N G D S L T S Q L T
2296 ctgctgqgggggcaacgcgcgagggagcttctgctgactcgggtcaag
L L G G N A R G S F V H S V K
2341 cctgqctctctgqccgagaaagccggcctccgtgagggccaccag
P G S L A E K A G L R E G H Q
2386 ctgctgctgctagaaggctgcacccgagggcgaagggcagagtgctc
L L L L E G C I R G E R Q S V
2411 ccgttgagacacatgcaccaaaagaggaagccactggaccatccag
P L D T C T K E E A H W T I Q
2476 aggtgcagcggcccccctcacgctgcactacaaggtcaaccacgaa
R C S G P V T L H Y K V N H E
2521 gcccagcagaaaaatccgtgggcctgcagaatatgatgtgggcarg

PDZ domain

FIGURE 2B

A Q Q K I R G P A E Y D V G S
2566 acctccaaagcccgagctgcgcagcagcacagccctgcaagtct
T S K A R S C A A A Q P C K S
2611 ggaattccagggaagaaagttcattccggcaggggtaccggaag
G I P G K E S S F R Q G Y R K
2656 ctggtgaaggacatggaggacggcctgatcacatcgggggactcg
L V K D M E D G L I T S G D S
2701 ttctacatccggctgaacctgaacatctccagccagctggacgcc
F Y I R L N L N I S S Q L D A
2746 tgcaccatgtccctgaagtgtgacgatgttgacgacgtccgtgac
C T M S L K C D D V V H V R D
2791 accatgtaccaggacaggcacgagtggtgtgcgcgcgggtcgac
T M Y Q D R H E W L C A R V D
2836 cctttcacagaccatgacctggatatgggcaccatacccagctac
P F T D H D L D M G T I P S Y
2881 agccgagcccgagcagctcctcctgggtgaaactgcagcgcctgatg
S R A Q Q L L L V K L Q R L M
2926 caccgaggcagccgggagggtagacggcaccaccacaccctg
H R G S R E E V D G T H H T L
2971 cgggcactccgggttcgtcagcaggtccgagaacaagtataagcgg
R A L R F V S R S E N K Y K R
3016 atgaacagcaacgagcgggtccgcacatcatctcggggagtcgccta
M N S N E R V R I I S G S P L
3061 gggagcctggcccggtcctcgtgacgccaccaagctcttgact
G S L A R S S L D A T K L L T
3106 gagaagcaggaagagctggaccctgagagcgagctgggcaagaac
E K Q E E L D P E S E L G K N
3151 ctcagcctcatccccctacagcctgggtacgcgccttctactgcgag
L S L I P Y S L V R A F Y C E
3196 cgccgcccggcccggtgctcttcacaccaccggtgctggccaagacg
R R P V L F T P T V L A K T
3241 ctggtgcagaggctgctcaactcgggaggtgccatggagttcacc
L V Q R L L N S G G A M E F T
3286 atctgcaagtcaagatctcgtcacaagagatgagttcctcagaagg
I C K S D I V T R D E F L R R
3331 cagaagacggagaccatcatctactccccgagagaagaaccccaac
Q K T E T I I Y S R E K N P N
3376 gcgttcgaatgcatcgccccctgcccaacattgaagctgtggccgcc
A F E C I A P A N I E A V A A
3421 aagaacaagcactgcctgctggaggctgggatcggtgcacaaga
K N K H C L L E A G I G C T R
3466 gacttgatcaagtccaacatctaccccatcgtgctcttcacccg
D L I K S N I Y P I V L F I R
3511 gtgtgtgagaagaacatcaagaggttcagaaagctgctgccccga
V C E K N I K R F R K L L P R
3556 cctgagacggaggaggagttcctgcgcgtgtgcccgtgaaggag
P E T E E E F L R V C R L K E
3601 aaggagctggaggccctgccgtgacctgtacgccacgggtggaacct
K E L E A L P C L Y A T V E P
3646 gacatgtggggcagcgttagaggagctgctccgcgttgtcaaggac
D M W G S V E E L L R V V K D
3691 aagatcggcgaggagcagcgcaagaccatctgggtggacgaggac
K I G E E Q R K T I W V D E D
3736 cagctgtga 3744
Q L

FIGURE 2C



1 atgggggaactgtgccgcagggactccgcactcacggcactggac
 M G E L C R R D S A L T A L D
 46 gaggagacactgtgggagatgatggagagccaccgccacaggatc
E E T L W E M M E S H R H R I CARD domain
 91 gtacgctgcacatctgccccagccgcctcacccccctacctgcgccag
V R C I C P S R L T P Y L R Q
 136 gccaaaggtgctgtgccagctggacgagaggaggtgctgcacagc
A K V L C Q L D E E E V L H S
 181 ccccggctcaccaacagcgcctatgcgggccgggcacttgctggat
P R L T N S A M R A G H L L D
 226 ttgctgaagactcgagggaaagaacggggccatcgcccttcctggag
L L K T R G K N G A I A F L E
 271 agcctgaagtccacaaccctgacgtctacaccctggtcaccggg
S L K F H N P D V Y T L V T G
 316 ctgcagcctgatgttgacttcagtaactttagcggtgagagctcc
L Q P D V D F S N F S G E S S
 361 gactttgacggtttggcaggcacttctaggaacctcaggctcctg
D F D G L A G T S R N L R L L
 406 gtaaccccagnn 417
 V T P X

FIGURE 3

GI "10436238"

1 msdyenddec wnvlegfrvt ltsvidpsri tpylrqckvl npddeeqvls qpnlvirkkrk
61 vgvllldilqr tghkgyvafi eslelyypql ykkvtgkepa rvfsmiidas gsgltqlm
121 tevmklqkkv qdltallssk ddfikelrvk dslirkhqer vqrlkeecesa gsralkrccke
181 enydlamrla hqseekgaal mnrndlqlei dqlkhsmlka eddckverkh tklrhamedq
241 rpsqellwel qqekallqar vqeleasvqe gklrdrsspyi qvleedwrqa lrdhqequant
301 ifslrkdlrq gearrlrcme ekemfelqcl alrkdsmyk drieaillqm eevalierdqs
361 tqmegl

GI "10436237"

1 atcatcagga agtgcacagg cgtccggcgt gtcctccct ccctgcagcc ccgggcagca
61 tctcccagag gtcccgcggc ccaggctcct ggtgtgtctg cagtgcaggt ggctcctgga
121 agaccctcag cctgcctgct gaggccatgt cggactacga gaacgatgac gagtgtgga
181 acgtcctgga gggcttccgg gtgacgctca cctcggctcat cgacccctca cgcacacac
241 cttacctgcg gcagtgaag gtcctgaacc ctgatgatga ggagcaggtg ctcagcgacc
301 ccaacctggg catccgcaa cggaaagtgg gtgtgtcct ggacatcctg cagcggaccg
361 gccacaaggg ctacgtggcc ttcctcgaga gcctggagct ctactaccg cagctgtaca
421 agaaggtcac aggcaaggag ccggcccgcg tcttctccat gatcatcgac gcgtccgggg
481 agtcaggcct gactcagctg ctgatgactg aggtcatgaa gctgcagaag aaggtgcagg
541 acctgaccgc gctgctgagc tccaaagatg acttcatcaa ggagctgcgg gtgaaggaca
601 gccctgctgc caagcaccag gacgctgtgc agaggctcaa ggaggagtcg gagccgggca
661 gccgcgagct caagcgctgc aaggaggaga actacgacct ggccatgcgc ttggcgccacc
721 agagtgaaga gaagggcgcc gcgctcatgc ggaaccgtga cctgcagctg gagattgacc
781 agctcaagca cagcctcatg aaggccgagg acgactgcaa ggtggagcgc aagcacacgc
841 tgaagctcag gcacgccatg gagcagcggc ccagccagga gctgctgtgg gagctgcagc
901 aggagaaggc cctgctccag gcccggtgac aggagctgga ggccctccgtc caggagggga
961 agctggacag gagcagcccc tacatccagg tactggagga ggactggcgg caggcgctgc
1021 gggaccacca ggagcaggcc aacaccatct tctccctgcg caaggacctc cgccaggggc
1081 agggccgacg cctccggtgc atggaggaga aggagatgtt cgagctgcag tgccctggcac
1141 tacgtaagga ctccaagatg tacaaggacc gcatcgaagg catcctgctg cagatggagg
1201 aggtcgccat tgagcgggac cagagcacac aaatggaggg gctgtgacca gcctccgcgc
1261 ccagcggctt gacgtcctcc ggagcctctg cttggagttg ggccggccggg ccgaggggcc
1321 agggcaagct tggggccctc actgagggtc ggccctgtgc tgtcccgtca ggccatagcc
1381 acgcgggagg agctgcacgc acagcacgcc cggggcctgc aggagaagga cgcgctgcgc
1441 aagcaggtgc gggagctggg cgagaaggcg gatgagctgc agctgcaggt gttccagtgt
1501 gaggcgagc tactggcctg ggaggcgag ctcaggcggc agcagctgga gacgctcgtc
1561 ctgagctccg acctggaaga tggctcacc aggaggtccc aggagctctc actccccag
1621 gacctggagg acaccagct ctcagacaaa ggctgccttg ccggcggggg gaggccgaaa
1681 cagccctttg cagctctgca ccaggagcag gttttgcgga acccccatga cgcaggcctg
1741 agcagcgggg agccgcccga gaaggagcgg cggcgccctca aagagagttt tgagaactac
1801 cgcaggaagc gcgccctcag gaagatgcag aaaggatggc ggagggggga ggaggaccgg
1861 gagaacacca cgggcagcga caacaccgac actgagggt cctagccgca gcagacttcc
1921 ccgagccgtc gctgacttgg cctggaacga ggaatctggt gccctgaaag gcccagccgg
1981 actgccgggc attggggccg tttgttaagc ggcactcatt ttgaggaggc catgcgggtg
2041 ctcaccaccc ccattgcacac gccatctgtg taacttcagg atctgttctg tttcaccatg
2101 taacacacaa tacatgcatg cattgtatta gtgttagaaa acacagctgc gtaaataaac
2161 agcacgggtg acccgc

FIGURE 4

CARD10X ESTs

GI"9094656"

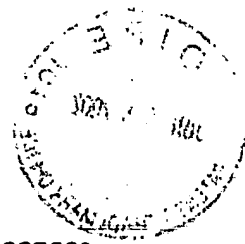
GAGAGGCTCCGCGGCCAGGCTCCTGGTGTGTCTGCAGTGCAGGTGGCTCCTGGAAGACC
CTCAGCCTGCCTGCTGAGGCCATGTTTGACTACGAGAACGATGACGAGTGCTGGAGCGTC
CTGGAGGGCTTCCGGGTGACGCTCACCTCGGTCATCGACCCCTCACGCATCACACCTTAC
CTGCGGCAGTGAAGGTCTGAACCCCGATGATGAGGAGCAGGTGCTCAGCGACCCCAAC
CTGGTCATCCGCAAACGGAAAAGTGGGTGTGCTCCTGGACAT

GI"7132200"

GGGACAGCCTGCTCCGCAAGCACCAAGAGCGGGTGCAGAAGATGAGGGAGGAGAGGGACA
GTCTAAGCAAGGAGTCCGGAAGTGCAAGGATGAGAAGTACAACCTGGCAATGAGCTATG
CCAGACAGAGCGAGGAGAAGAGCAGTGCCCTCATGAAGAACAGGGACCTGCTCCTAGAGA
TTGATAGCTTGAAGCATAGCCTCATGAAGGTGAGGACGACTGCAAACTAGAGCGTAAGC
ACTCGATGAACTGAAGCATGCCATAGAACAACGTCCGAGCCATGAAGTGATGTGGGAGA
TCCAGCAGGAGAAGGAGCTGCTTTTGGCCAAGAATCAGGAGCTGGAGAACACTCTTCAGG
TTGCCAGGGAACAGAATTTGGAGACGAGTCTCTCCCATGAGACTGTGCAGAACTGACTGCA
GCCAGGTGCTGGAGCGCCAGGACCTGCTGAACACCCTGTACCACCTTCGCAAGGAGCTGC
GCCAAGCCGAGGTGCTTCGAGACAAGTTCGAGGAGTGCAGCTCAGCCCACGAGGAGCTGT
CCGAGAAGGAGCGGAGGAGGATGAAGGACTGCTTTGAGCGTTACCGCAGGAAGCGCGCCC
TGCGCAGAGCGCCCGGGGCCCGCCCGGAGGCCGACTGGGAGCCGAGCACGGGCAGC
GACAACACGGACACCGAGGGCAGCTAGGGGCCGGCCGAGCTTTCGAGTTTGCAGCTGGAT
CCGTCAATAAACAG

GI"5884878"

TGAACACCCTGTACCACCTTCGCAAGGAGCTGCGCCAAGCCGAGGTGCTCCGAGACAAGT
ATGCAGAGGAAAAAGAAATACTTGAAGTACAGTGACATCTCTGAGGAAGGACTCCCAGA
TGTATAAAAAACGGATGGAAGCTGTCTTAGAGCAGATGGAGGAAGTGGCTTCGGAAAGAG
ACCAGGCACTGCTGACCAGAGAACAGTCTACCCACAGTACTCCAAGAACCTTGTTGAGA
GGGACACTTATCGGAAGCAGATTCTGGGAGCTGGGGGAGCGATGCGATGAGCTGCAGCTGC
AGCTCTTCCAAAAGGAGGGTCACTACTGGCTACTGAAGCCAAGCTGAAAAGACTGCAAC
TGGAGCTGCCTGCACTGACTTCTGACCTGGATGACACTCCTCCAGAGATCCCAGGTCTTA
CTCTCATGGTCATCTAGACGAAGATCGCACCTGACTAAAAAAGACGCTGTTAAGGAAAAC
CAGCAATCAGCATGCAAGAAACATCTGACGCAGATCACCCTTCGAGGATGCACTAACCA
CAAGACTTCGAGAAGACGGAGAGATAAGGATGCTTGAGCGTACGAGTCCGCCGATCCGCG
CCCCCCTCCGCGCTCCTTCCGTGGCTCGT



CARD11X ESTs

GI"6926669"

CACGAGGGAAATGTACAAGCACCGCATGAACACGGTCATGCTGCACCTGGAGGAGGTGGA
GCGGGAGCGGGACCAGGCCTTCCACTCCCGAGATGAAGCTCAGACACAGTACTCGCAGTG
CTTAATCGAAAAGGACAAGTACAGGAAGCAGATCCGCGAGCTGGAGGAGAAGAACGACGA
GATGAGGATCGAGATGGTGGCGGGAGGCCTGCATCGTCAACCTGGAGAGCAAGCTGCG
GCGCCTCTCCAAGGACAGCAACAACCTGGACCAGAGTCTGCCCAGGAACCTGCCAGTAAC
CATCATCTCTCAGGACTTTGGGGATGCCAGC

GI"6143407"

TTTTTTTTTTTTTCTCTCCTGCCTCCTCTGGCCTTCGGACTCCTGCCCCGCGCCGCCG
CAGCCCCCTCCCGGCCCTGCAGCCCCCTGGGCGGGCGGCGCCCCCTCGGAGGACGGCTCCGG
GCCCCGGGGGACGGAGGGCCTGGTCGCCTGGAGGAAGCCGGAGGCCTGCGTGGAGGAGGC
GCCCCGCGCAGCTGGCTGGCGGAGCATGAGCGCCCCAGATCCCAAGCACTGCAAGTCCAG
ATGCAACGGGAGCCTGGCTCAAGGGACGACAAGATCCAGCCGGAAAGTGTAGAAGTCACA
CCCCAATGGCGGGATAGCAGCCCCCTGTGTGTGAGCACCCCTCCATGCCAGGAGGAGGGCC
AGAGATGGATGACTACATGGAGACCCTGAAGGATGAAGAGGACCCCTTGTGGGACAATGT
GGAGTGAACCGGCACATGCTCAACCGCTATATCAACCCTGCCAAGCTCACGCCCTAC

GI"2785620"

GCAGCCCCCTCCCGGCCCTGCAGCCCCCTGGCGTGGCGGCCATCGGAGGACGGCTCCGGG
CCCGGGGGGACGGAGGGCCTGGTCGCCTGGAGGAAGCCGGACGCTGCGTGGAGGAGGCGC
CCCCGGTCTGGTCTGGCGGACGATGAGCGCCCCAGATCCCAAGCACTGCAAGTCCAGATG
CAACGGGAGCCTGGCTCAAGGGACGACAAGATCCAGCCGGAAAGTGTAGAAGTCACACCC
CAATGGCGGGATAGCAGCCCCCTGTGTGTGATCACCCCTCCATGCCAGGAGGAGGGCCAGA
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GI"1838222"

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GI"6927709"

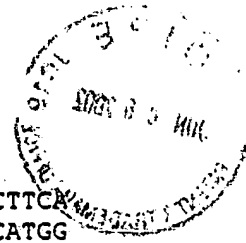
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CCGGCCTTCGGTCACCTCTGTGGGGCACGTTTCGGGGCCCAAGGCCCTCGGTGCAGCAC

Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

Inventors: Pawlowski et al.

Serial No.: 10/032,159

9/11



GI"9720543"

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GI"9142863"

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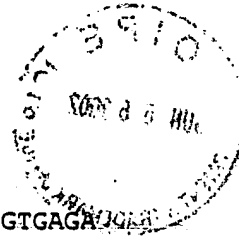
GI"1761194"

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GCCTCATCCCCTACAGCCTGGTACGCGCCTTCTACTGCGAGCGCCGCCGGCCTGTGCTCT
TCACACCCACCGTGCTGGCCAAGACGCTGGTGCAGAGGCTGCTCAACTCGGGAGGTGCCA
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GI"8151878"

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FIGURE 6B



GI"2007639"

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GI"8042493"

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GI"2079290"

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GI"7044777"

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CCCCG



CARD 12X EST

GI"10316320"

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CAGCCTGGATGCATAGACATAACAAGTAACCTTCTACTAGCCAGGTCCTCATGCGAAGACC
ATCCCAAGCCTGACCCGACATGCCCTGGACATGGGGCCCACTACGCGCAGACCATGCAGC
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